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Standard Features

- Energy-efficient compressor
- Quiet condenser fan system
- Copper tube/aluminum fin coil
- For use with R-22 refrigerant and charged with inert gas for shipping
- Factory-installed bi-flow liquid line filter drier
- Low-pressure switch
- Time-initiated, temperature-terminated defrost control
- Service valves with sweat connections and easy-access gauge ports
- Contactor with lug connection
- Ground lug connection
- ETL Listed

Cabinet Features

- Louver design sound control top
- Steel louver coil guard
- Heavy-gauge, galvanized-steel cabinet with rust-resistant screws
- Attractive Architectural Gray powder-paint finish with 500-hour salt-spray approval
- Single-panel access to controls with space provided for field-installed accessories
- When properly anchored, meets the 2010 Florida Building Code unit integrity requirements for hurricane-type winds (Anchor bracket kits available.)



* Complete warranty details available from your local dealer or at www.amana-hac.com.

NOMENCLATURE

	G	S	H	13	036	1	A	A	
	1	2	3	4,5	6,7,8	9	10	11	
Brand	G Goodman® (Standard Feature Set Models)		S Split System		H Heat Pump R-22		13 13 SEER		Engineering *
									Minor Revision
Product Category	S Split System		H Heat Pump R-22		13 13 SEER		036 3 Tons		Engineering *
									Major Revision
Unit Type	C Condenser R-22		H Heat Pump R-22		13 13 SEER		036 3 Tons		Electrical
									1 208/230 V, 1 Phase, 60 Hz
Efficiency	13 13 SEER		H Heat Pump R-22		13 13 SEER		036 3 Tons		Nominal Capacity
									018 1½ Tons 042 3½ Tons
	13 13 SEER		H Heat Pump R-22		13 13 SEER		036 3 Tons		024 2 Tons 048 4 Tons
									030 2½ Tons 060 5 Tons

* Neither used for order entry or inventory management.



SPECIFICATIONS

	GSH13 0181C*	GSH13 0241C*	GSH13 0301C*	GSH13 0361C*	GSH13 0421B*	GSH13 0481B*	GSH13 0601A*
CAPACITIES AND RATINGS							
Tonnage	1½	2	2½	3	3½	4	5
Decibels	73	71	72	71	76	76	77
COMPRESSOR							
RLA	8.3	10.8	13.5	14.1	19.2	19.9	25.0
LRA	40.3	56.0	68.0	75.0	112.0	104.0	148.0
Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
CONDENSER FAN MOTOR							
Horsepower	1/8	1/8	1/8	¼	¼	¼	1/6
FLA	0.7	0.7	0.7	1.5	1.5	1.5	1.1
REFRIGERANT SYSTEM							
Refrigerant Line Size							
Liquid Line Size ("O.D.)	⅜"	⅜"	⅜"	⅜"	⅜"	⅜"	⅜"
Suction Line Size ("O.D.)	¾"	¾"	¾"	⅞"	1⅛"	1⅛"	1⅛"
Refrigerant Connection Size							
Liquid Valve Size ("O.D.)	⅜"	⅜"	⅜"	⅜"	⅜"	⅜"	⅜"
Suction Valve Size ("O.D.)	¾"	¾"	¾"	⅞"	⅞"	⅞"	⅞"
Valve Type	Sweat	Sweat	Sweat	Sweat	Sweat	Sweat	Sweat
Refrigerant Charge	127	122	130	188	246	208	233
ELECTRICAL DATA							
Voltage-Hz	208/230-60	208/230-60	208/230-60	208/230-60	208/230-1-60	208/230-1-60	208/230-60
Minimum Circuit Ampacity ²	11.1	14.2	17.6	19.1	25.5	26.4	32.3
Max. Overcurrent Protection ³	15	25	30	30	40	45	50
Min / Max Volts	197/253	197/253	197/253	197/253	197/253	197/253	197/253
Electrical Conduit Size	½" or ¾"	½" or ¾"	½" or ¾"	½" or ¾"	½" or ¾"	½" or ¾"	½" or ¾"
EQUIPMENT WEIGHT (LBS)	134	133	140	170	192	202	276
SHIP WEIGHT (LBS)	151	150	157	188	210	220	298

¹ Tested and rated in accordance with AHRI Standard 210/240

² Wire size should be determined in accordance with National Electrical Codes; extensive wire runs will require larger wire sizes

³ Must use time-delay fuses or HACR-type circuit breakers of the same size as noted.

NOTES

- Always check the S&R plate for electrical data on the unit being installed.
- Installer will need to supply ⅞" to 1⅞" adapters for suction line connections.
- Charge to be added for 15' of ⅞" liquid line. System charge must be adjusted per Installation Instructions Final Charge Procedure.
- Installation of these units requires the specified TXV Kit to be installed on the indoor coil. THE SPECIFIED TXV IS DETERMINED BY THE OUTDOOR UNIT NOT THE INDOOR COIL.

AHRI RATINGS

OUTDOOR UNIT	INDOOR UNITS	COOLING CAPACITY (BTU/H)				TVA RATINGS ³		HEATING CAPACITY (BTU/H)			CFM	AHRI #
	COILS/AIR HANDLERS	TOTAL	SENS.	SEER ¹	EER ²	TOTAL	SENS.	HI	HSPF ⁴	LOW		
GSH130181(B,C)*	AR*F182416B*	17,600	13,100	13.00	11.00	625	12,100	8,700	16,800	7.70	8,900	4675036
GSH130241(B,C)*	AR*F182416B*+TXV	23,000	17,800	13.00	11.00	860	16,400	12,200	21,400	7.70	11,800	4675037
GSH130301(B,C)*	AR*F363616B*	27,800	20,200	13.00	11.00	1,020	18,800	14,100	25,400	7.70	15,300	4692016
GSH130361(B,C)*	AR*F374316B*	33,600	26,200	13.00	11.00	1,260	24,000	18,300	31,400	7.70	18,200	4692017
GSH130363A*	AR*F374316B*	33,600	26,200	13.00	11.00	1,260	24,000	18,300	31,400	7.70	18,200	5528484
GSH130421B*	AR*F364216B*	40,000	29,800	13.00	11.00	1,250	27,800	21,000	39,000	8.00	23,000	5528479
GSH130481B*	AR*F486016B*	45,000	33,800	13.00	11.00	1,600	31,200	23,800	43,000	8.20	27,000	5528480
GSH130483B*	AR*F486016B*	45,000	33,800	13.00	11.00	1,600	31,200	23,800	43,000	8.20	27,000	5528481
GSH130484A*	AR*F486016B*	45,000	33,800	13.00	11.00	1,600	31,200	23,800	43,000	8.20	27,000	1492572
GSH130484AD	AR*F486016B*	45,000	33,800	13.00	11.00	1,600	31,200	23,800	43,000	8.20	27,000	5528482
GSH130601A*	AR*F486016B*	55,500	41,000	13.00	11.00	1,800	37,800	27,200	55,500	8.50	35,000	1492576
GSH130603A*	AR*F486016B*	55,500	41,000	13.00	11.00	1,800	37,800	27,200	55,500	8.50	35,000	1492581
GSH130604A*	AR*F486016B*	55,500	41,000	13.00	11.00	1,800	37,800	27,200	55,500	8.50	35,000	1492585
GSH130604AC	AR*F486016B*	55,500	41,000	13.00	11.00	1,800	37,800	27,200	55,500	8.50	35,000	4982919

¹ BTU/h

² Seasonal Energy Efficiency Ratio; Certified per AHRI 210/240 @ 80°F/ 67°F/ 95°F

³ Energy Efficiency Ratio @ 80°F/ 67°F/ 95°F

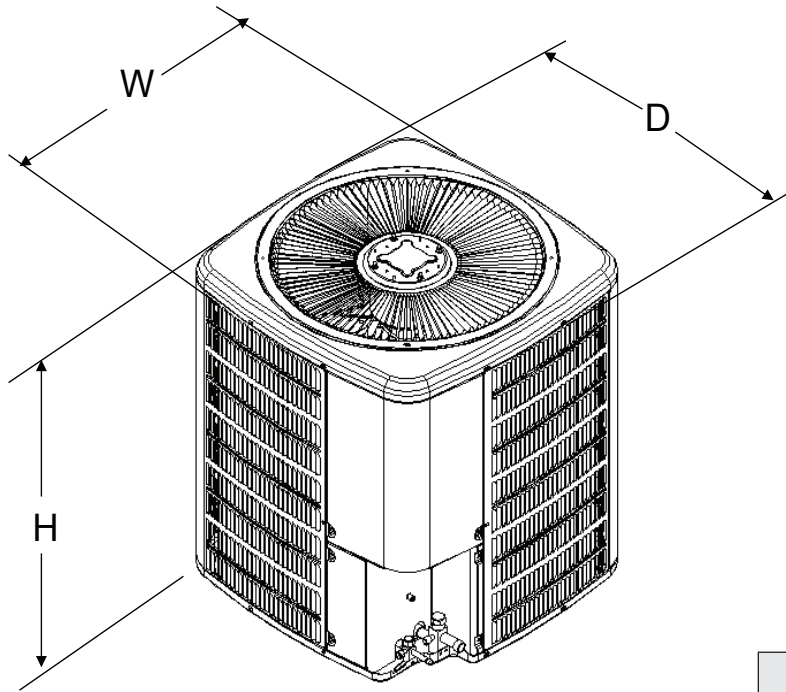
⁴ TVA Rating: BTU/h @ 75°F/ 63°F - 95°F

⁵ HSPF = Heating Seasonal Performance Factor

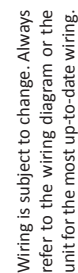
NOTES

- Always check the S&R plate for electrical data on the unit being installed.
- When matching outdoor unit to indoor unit, use the piston supplied with outdoor unit or that specified on the piston kit chart supplied with the indoor unit.
- EEP - Order from Service Dept. Part No. B13707-38 or new Solid State Board B13707-35S. Part No. B13707-38 is not interchangeable with B13707-35S. The Goodman Gas Furnace contains the EEP cooling time delay

DIMENSIONS



MODEL	DIMENSIONS		
	W"	D"	H"
GSH130181C	26	26	32¼
GSH130241C	26	26	32¼
GSH130301C	26	26	34¼
GSH130361C	29	29	38¼
GSH130421B	29	29	32¼
GSH130481B	29	29	34¼
GSH130601A	35¼	35¼	34¼



WARNING

High Voltage: Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

ACCESSORIES

MODEL	DESCRIPTION	GSH13 018	GSH13 024	GSH13 030	GSH13 036	GSH13 042	GSH13 048	GSH13 060
ABK-20	Anchor Bracket Kit *	X	X	X	X	X	X	X
ASC01	Anti-Short Cycle Kit	X	X	X	X	X	X	X
CSR-U-1	Hard-start Kit	X	X	X	X	X	X	
CSR-U-3	Hard-start Kit							X
FSK01A ¹	Freeze Protection Kit	X	X	X	X	X	X	X
OT/EHR18-60	Emergency Heat Relay kit	X	X	X	X	X	X	X
OT18-60A ²	Outdoor Thermostat with Lockout Stat	X	X	X	X	X	X	X

* Contains 20 brackets; four brackets needed to anchor unit to pad

¹ Installed on indoor coil

² Required for heat pump applications where ambient temperatures fall below 0 °F with 50% or higher relative humidity.

³ Condensing units and heat pumps with reciprocating compressors require the use of start-assist components when used in conjunction with an indoor coil using a non-bleed thermal expansion valve refrigerant metering device. The TXV should always be sized based on the tonnage of the outdoor unit.

NOTES